

# Justin B. Ledesma, MD

## Orthopedic Spine Surgeon

### Employment

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9/11/17-7/26/19	<b>Tucson Orthopedic Institute</b>	Tucson, AZ
10/7/19-6/30/21	<b>Franciscan Orthopedic Associates</b>	Burien, WA
8/1/21-8/31/23	<b>Plano Orthopedic &amp; Sports Medicine Center</b>	Plano, TX
11/1/23-present	<b>Panorama Orthopedics &amp; Spine Center</b>	Denver, CO

### Education

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8/01/16-7/31/17	<b>San Diego Spine Foundation</b> Spine Fellow Directors: Gregory Mundis, MD and Robert Eastlack, MD	San Diego, CA
6/24/11-6/30/16	<b>Stanford Hospital and Clinics</b> Orthopedic Surgery Resident	Stanford, CA
8/20/07-6/10/11	<b>University of California San Francisco School of Medicine</b> Medical Student	San Francisco, CA
8/18/03-5/12/07	<b>University of Arizona</b> B.S. Physiology, Minor in Chemistry. <i>Summa Cum Laude</i>	Tucson, AZ

### Licenses/Certifications

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- Medical Licenses: AZ #54240, TX #T0551, NY #298253, CO #CDR.0002960
- DEA License #FL3554640
- Board Certified in Orthopedics 2019

### Research Experience

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2016-2017	<b>Clinical Fellow Research</b> <i>San Diego Spine Foundation, San Diego, CA.</i> <ul style="list-style-type: none"><li>○ Retrospective review of outcomes and complications of stand alone lateral lumbar interbody fusions</li><li>○ Measurement of spino-pelvic parameters in patients with transitional anatomy</li><li>○ Review of factor affecting disposition after spinal deformity surgery</li></ul>
2011-2016	<b>Resident Research Assistant</b> <i>Department of Orthopedic Surgery, Stanford Hospital and Clinics, Stanford, CA.</i> <ul style="list-style-type: none"><li>○ Retrospective review comparing displacement on upright versus supine radiographs in acute mid-shaft clavicle fractures</li></ul> Advisor: Dr. Julius Bishop MD <ul style="list-style-type: none"><li>○ Biomechanical study comparing cortical versus cancellous screws in unicortical applications</li></ul> Advisor: Dr. Julius Bishop, MD <ul style="list-style-type: none"><li>○ Technique and case series on endoscopic-assisted epiphysiodesis</li></ul> Advisor: Dr. Meghan Imrie, MD and Dr. Lawrence Rinsky, MD <ul style="list-style-type: none"><li>○ Technique and case series on using flexible rods for sequential correction in pediatric spinal deformity</li></ul> Advisor: Dr. Lawrence Rinsky, MD <ul style="list-style-type: none"><li>○ Retrospective review comparing outcomes of patients undergoing ALIF versus XLIF</li></ul>

Advisor: Dr. Ivan Cheng, MD

**2008-2011**     **Research Assistant** *Department of Orthopedic Surgery, University of California San Francisco, San Francisco, CA.*

- Studied chondrocyte death following mechanical impaction in a bovine model

Advisor: Dr. Alfred Kuo MD, PhD

- Retrospective review looking at the effect of blood transfusions on function in arthroplasty patients

Advisor: Dr. Kevin Bozic, MD

**2005-2007**     **Research Assistant** *Department of Surgery, University of Arizona, Tucson, AZ*

- A Novel Bone Substitute Study in a Rat Calvaria Model
- A Collagen-Anorganic Bone Composite for Bone Repair: Part II: *In Vivo* Study in a Rabbit Radius Defect Model
- Wound Healing Following Electroporation Therapy in a Porcine Model
- Hepatoprotective Effects of the Herbal Remedies Milk Thistle and Schizandra in a Rat Model of Inflammatory Liver Disease

Advisor: Dr. Judith B. Ulrich PhD.

## Publications

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- Eastlack RK, **Ledesma JB**, Tran S, Khalsa A, Park P, Mummaneni PV, Chou D, Kanter AS, Anand N, Nunley P, La Marca F, Fessler RG, Uribe JS, Mundis GM Jr; International Spine Study Group. Home Versus Rehabilitation: Factors that Influence Disposition After Minimally Invasive Surgery in Adult Spinal Deformity Surgery. *World Neurosurg.* 2018 Jul 10. pii: S1878-8750(18)31473-6.
- Khalsa AS, Mundis GM Jr, Yagi M, Fessler RG, Bess S, Hosogane N, Park P, Than KD, Daniels A, Iorio J, **Ledesma JB**, Tran S, Eastlack RK; International Spine Study Group. Variability in Assessing Spinopelvic Parameters With Lumbosacral Transitional Vertebrae: Inter- and Intraobserver Reliability Among Spine Surgeons. *Spine (Phila Pa 1976).* 2018 Jun 15;43(12):813-816
- Wang T, Behn A, Boone C, **Ledesma JB**, Bishop J. Cancellous Screws Are Biomechanically Superior to Cortical Screws in Metaphyseal Bone. *Orthopedics.* May 12:1-5. 2016
- **Ledesma JB**, Wang T, Desmond E, Imrie M, Gamble JG, Rinsky LA. Endoscopic-Assisted Epiphysiodesis: Technique and Twenty-Year Experience. *J Pediatr Orthop B.* 25(1):24-30, 2016
- Ulrich JB, Filip ZA, Speer DP, Demeure MJ, Valles AV, **Ledesma JB**, Dev NB, Goldfarb PM and Rabussay DP: Wound Healing Following Electroporation Therapy in a Porcine Model, *The Toxicologist*, 90 (S1):116, 2006
- Filip ZA, Speer DP, Demeure MJ, Valles AV, **Ledesma JB**, Rabussay DP, Dev NB, Goldfarb PM and Ulrich JB: Wound Healing Following Electroporation Therapy in a Porcine Model, *J Investigative Medicine* 54: s170, 2006
- Speer DP, Ulrich JB, Filip ZA, Valles AV, **Ledesma JB**, Chen H-C, Yuen D and Li S-T: A Collagen-Anorganic Bone Composite for Bone Repair: Part II: *In Vivo* Study in a Rabbit Radius Defect Model, Transactions of the 31st Annual Meeting, Society for Biomaterials, 2006

## Abstracts

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- **Ledesma JB**, Eastlack R, Nguyen S, Park P, Mummaneni P, Chou D, Kanter A, Anand N, Nunley P, La Marca F, Fessler RG, Uribe JS, Mundis GM. Home vs Rehab: Factors that Influence Disposition After MIS Adult Spinal Deformity. *Society of Lateral Access Surgery.* May 2017
- Ziino C, Cheng I, **Ledesma JB**, Burket Koltsov J, Konopka J. Single Position Versus Lateral-Then-Prone Positioning for Lateral Interbody Fusions and Pedicle Screw Fixation. *Society of Lateral Access Surgery.* May 2017

- Goodnough LH, Koltsov J, Wang T, Xiong G, **Ledesma J**, Nathan K, Ith M, Cheng I. Lateral Trans-Psoas Versus Anterior Lumbar Interbody Fusion for Degenerative Spondylolisthesis: A Comparison of Peri- and Post-Operative Complications. Society of Lateral Access Surgery. May 2017

## Presentations

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- **Podium Presentation. Ledesma JB**, Githens M, Bishop J. Acute Upright Radiographs of Acute Clavicle Fractures Reveal Increased Displacement and Deformity. Western Orthopaedics Association Annual Meeting. August 2014
- **Resident Research Award, Podium Presentation.** Wang T, **Ledesma JB**, Behn A, Boone C, Bishop J. A Comparison of Insertional Torque and Pullout Strength Between Cortical and Cancellous Screws in Osteoporotic and Normal Density Synthetic Bone Model. Northern California Orthopaedic Association Annual Meeting, October 2013
- **Podium Presentation.** Wang T, **Ledesma JB**, Behn A, Boone C, Bishop J. A Comparison of Insertional Torque and Pullout Strength Between Cortical and Cancellous Screws in Osteoporotic and Normal Density Synthetic Bone Model. Western Orthopaedic Association Annual Conference, August 2013
- **Poster Presentation. Ledesma JB**, Kuo A, Lee D, and Chang T. Development of a Model for Chondrocyte Cell Death Following Mechanical Impaction. Presented at the Dean's Medical Student Research Poster Session, 2008
- **Podium Presentation.** Ulreich JB, Filip ZA, Speer DP, Demeure MJ, Valles AV, **Ledesma JB**, Dev NB, Goldfarb PM, Rabussay DP. Effect of Electroporation and Bleomycin-Electroporation-Therapy on Wound Healing. Gordon Conference on Bioelectrochemistry. Aussois, France. September 2006
- **Poster Presentation.** Speer DP, Ulreich JB, Filip ZA, Valles AV, **Ledesma JB**, Chen H-C, Yuen D and Li S-T: A Collagen-Anorganic Bone Composite for Bone Repair: Part II: *In Vivo* Study in a Rabbit Radius Defect Model. 31<sup>st</sup> Annual Meeting, Society for Biomaterials, 2006
- **Podium Presentation.** Filip ZA, Speer DP, Demeure MJ, Valles AV, **Ledesma JB**, Rabussay DP, Dev NB, Goldfarb PM and Ulreich JB: Wound Healing Following Electroporation Therapy in a Porcine Model. Western Federation for Medical Research, Carmel, CA 2006 and Society of Toxicology Meeting, San Diego, CA 2006
- **Poster Presentation.** Valles AV, Singh J, Clary JA, Clark AC, Qureshi AK, Singh C, **Ledesma JB**, Ulreich JB: Hepatoprotective Effects of the Herbal Remedies Milk Thistle and Schizandra in a Rat Model of Inflammatory Liver Disease. Undergraduate Biology Research Program Conference, Tucson, AZ 2006
- **Poster Presentation. Ledesma JB**, Ulreich JB, Filip ZA, Speer DP, Demeure MJ, Valles AV, Dev NB, Goldfarb PM and Rabussay DP: Effects of Electroporation on Wound Healing Using a Porcine Model. Undergraduate Biology Research Program Conference and Physiology Honors Convocation, Tucson, AZ 2006

## Society Memberships and Activities

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2016-Present	North American Spine Society
2014-Present	Western Orthopaedic Association
2011-Present	American Academy of Orthopaedic Surgeons
2007-2011	American Medical Association
2007-2008	Clínica Martín Baró – student run free clinic

## Honors and Awards

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- Honors in OB/GYN Clerkship, Pediatrics Clerkship, Surgery Clerkship, Advanced Clerkship in Medicine, Orthopaedic Clerkship, Gastroenterology Clerkship
- University of Arizona College of Medicine Senior of the Year 2007
- Dean's List with Distinction (Fall 2004, Fall 2006)
- Dean's List Honorable Mention (Fall 2003, Spring 2004, Spring 2005, Fall 2005, Spring 2006)
- Phi Eta Sigma National Honor Society

- National Hispanic Scholarship
- Presidential Award for Excellence-Achievement
- University of Arizona Provost Scholarship
- Phi Kappa Phi Honor Society
- Western Alliance to Expand Student Opportunities Research Scholarship

## **Personal Interests**

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- Hiking, Running/Trail Running, Snowboarding
- Music, Concerts
- Brewing beer
- Bayern Munich Football Club
- Anything involving University of Arizona Athletics
- Cooking
- Novice Photographer